

Author index of volume 112

- Asyali, M.H., see Khoo, M.C. 112 (1998) 291.
- Atlan, G., see Collet, F. 112 (1998) 1.
- Ayappa, I., L.V. Brown and S.J. Lai-Fook, Effects of hypoxia, blood P_{CO_2} and flow on O_2 transport in excised rabbit lungs 112 (1998) 155.
- Badier, M., see Jammes, Y. 112 (1998) 167.
- Baudinette, R.V., see Runciman, S.I. 112 (1998) 325.
- Ben-Dov, I., see Natif, N. 112 (1998) 145.
- Berry, R.B., see Khoo, M.C. 112 (1998) 291.
- Bolton, D.P., see Campbell, A.J. 112 (1998) 51.
- Brown, L.V., see Ayappa, I. 112 (1998) 155.
- Cairns, A.M. and J.D. Road, High-frequency oscillation and centroid frequency of diaphragm EMG during inspiratory loading 112 (1998) 305.
- Campbell, A.J., D.P. Bolton, B.J. Taylor and R.M. Sayers, Responses to an increasing asphyxia in infants: effects of age and sleep state 112 (1998) 51.
- Caquelard, F., see Jammes, Y. 112 (1998) 167.
- Carvalho, P., see Charan, N.B. 112 (1998) 227.
- Charan, N.B., R. Ripley and P. Carvalho, Effect of increased coronary venous pressure on left ventricular function in sheep 112 (1998) 227.
- Chen, Y., M.B. Plenderleith and B.A. Hills, Influence of surfactant on the activity of slowly adapting stretch receptors in the lung 112 (1998) 135.
- Coen, E., see Verbraecken, J. 112 (1998) 59.
- Collet, F., B. Fève, E. Frisdal, C. Pavoiné, F. Pecker and G. Atlan, Pharmacological and molecular characterisation of β -adrenoceptors in adult rat diaphragm muscle 112 (1998) 1.
- Dauger, S., E. Nsege, G. Vardon, C. Gaultier and J. Gallego, The effects of restraint on ventilatory responses to hypercapnia and hypoxia in adult mice 112 (1998) 215.
- De Backer, W., see Verbraecken, J. 112 (1998) 59.
- De Cock, W., see Verbraecken, J. 112 (1998) 59.
- Desplanches, D., see Thomas, R.G. 112 (1998) 195.
- Donnelly, D.F., see Panisello, J.M. 112 (1998) 265.
- Easton, P.A., see Platt, R.S. 112 (1998) 203.
- Elad, D., A. Shochat and R.J. Shiner, Computational model of oscillatory airflow in a bronchial bifurcation 112 (1998) 95.
- Ernsberger, P., Y.R. Kou and N.R. Prabhakar, Carotid body I_1 -imidazoline receptors: Binding, visualization and modulatory function 112 (1998) 239.
- Fabry, B., see Haberthür, C. 112 (1998) 23.
- Favier, R., see Thomas, R.G. 112 (1998) 195.
- Ferretti, G., see Thomas, R.G. 112 (1998) 195.
- Fève, B., see Collet, F. 112 (1998) 1.
- Frisdal, E., see Collet, F. 112 (1998) 1.
- Gaides, M., see Natif, N. 112 (1998) 145.
- Gallego, J., see Dauger, S. 112 (1998) 215.
- Gannon, B.J., see Runciman, S.I. 112 (1998) 325.
- Gaultier, C., see Dauger, S. 112 (1998) 215.
- Gautier, H. and C. Murariu, Neuromodulators and hypoxic hypothermia in the rat 112 (1998) 315.
- Gozal, D., G.R. Graff, E. Gozal and J.E. Torres, Modulation of the hypoxic ventilatory response by Ca^{2+} -dependent and Ca^{2+} -independent protein kinase C in the dorsocaudal brainstem of conscious rats 112 (1998) 283.
- Gozal, E., see Gozal, D. 112 (1998) 283.
- Graff, G.R., see Gozal, D. 112 (1998) 283.
- Guttmann, J., see Haberthür, C. 112 (1998) 23.
- Haberthür, C., B. Fabry, D. Zappe and J. Guttmann, Effects of mechanical unloading/loading on respiratory loop gain and periodic breathing in man 112 (1998) 23.
- Hills, B.A., see Chen, Y. 112 (1998) 135.
- Honda, K., see Takahashi, Y. 112 (1998) 113.
- Hoppeler, H., see Thomas, R.G. 112 (1998) 195.
- Hosogai, M., S. Matsuo, T. Sibahara and Y. Kawai, Projection of respiratory neurons in rat medullary raphe nuclei to the phrenic nucleus 112 (1998) 37.
- Hunter, J.D. and W.K. Milsom, Cortical activation states in sleep and anesthesia. I: Cardio-respiratory effects 112 (1998) 71.
- Hunter, J.D., J.Z. McLeod and W.K. Milsom, Cortical activation states in sleep and anesthesia. II: Respiratory reflexes 112 (1998) 83.
- Ishikawa, T., S. Sekizawa, F.B. Sant'Ambrogio and G. Sant'Ambrogio, Endotracheal cuff pressure as an index of airway smooth muscle activity: Comparison with total lung resistance 112 (1998) 175.

- Jammes, Y., F. Caqueland and M. Badier, Correlation between surface electromyogram, oxygen uptake and blood lactate concentration during dynamic leg exercises 112 (1998) 167.
- Joos, G., see Van de Voorde, J. 112 (1998) 185.
- Kawai, Y., see Hosogai, M. 112 (1998) 37.
- Kawakami, T., see Takahashi, Y. 112 (1998) 113.
- Kayser, B., see Thomas, R.G. 112 (1998) 195.
- Khoo, M.C., J.J. Shin, M.H. Asyali, T.-S. Kim and R.B. Berry, Ventilatory dynamics of transient arousal in patients with obstructive sleep apnea 112 (1998) 291.
- Kieser, T.M., see Platt, R.S. 112 (1998) 203.
- Kim, T.-S., see Khoo, M.C. 112 (1998) 291.
- Kobayashi, H., see Takahashi, Y. 112 (1998) 113.
- Kou, Y.R., see Ernsberger, P. 112 (1998) 239.
- Kuwahara, M., see Sekizawa, S.-i. 112 (1998) 13.
- Lai-Fook, S.J., see Ayappa, I. 112 (1998) 155.
- LaStayo, P.C., see Thomas, R.G. 112 (1998) 195.
- Lindstedt, S.L., see Thomas, R.G. 112 (1998) 195.
- Lipsett, J., see Runciman, S.I. 112 (1998) 325.
- Matsuo, S., see Hosogai, M. 112 (1998) 37.
- McLeod, J.Z., see Hunter, J.D. 112 (1998) 83.
- Milsom, W.K., see Hunter, J.D. 112 (1998) 83.
- Milsom, W.K., see Hunter, J.D. 112 (1998) 71.
- Milsom, W.K., see Powell, F.L. 112 (1998) 123.
- Mitchell, G.S., see Powell, F.L. 112 (1998) 123.
- Murariu, C., see Gautier, H. 112 (1998) 315.
- Mutoh, T., H. Tsubone, R. Nishimura and N. Sasaki, Effects of volatile anesthetics on vagal C-fiber activities and their reflexes in anesthetized dogs 112 (1998) 253.
- Natif, N., R.J. Shiner, M. Gaides and I. Ben-Dov, Improved breathing capacity during exercise in severe obstructive airway disease 112 (1998) 145.
- Nishimura, R., see Mutoh, T. 112 (1998) 253.
- Nsege, E., see Dauger, S. 112 (1998) 215.
- Panisello, J.M. and D.F. Donnelly, Chemotransduction by carotid body chemoreceptors is dependent on bicarbonate currents 112 (1998) 265.
- Pavoine, C., see Collet, F. 112 (1998) 1.
- Pecker, F., see Collet, F. 112 (1998) 1.
- Platt, R.S., T.M. Kieser and P.A. Easton, Eliminating ultrasonic interference from respiratory muscle EMG 112 (1998) 203.
- Plenderleith, M.B., see Chen, Y. 112 (1998) 135.
- Powell, F.L., W.K. Milsom and G.S. Mitchell, Time domains of the hypoxic ventilatory response 112 (1998) 123.
- Prabhakar, N.R., see Ernsberger, P. 112 (1998) 239.
- Ripley, R., see Charan, N.B. 112 (1998) 227.
- Road, J.D., see Cairns, A.M. 112 (1998) 305.
- Runciman, S.I., R.V. Baudinette, B.J. Gannon and J. Lipsett, Morphometric analysis of postnatal lung development in the tammar wallaby: Light microscopy 112 (1998) 325.
- Sant'Ambrogio, F.B., see Ishikawa, T. 112 (1998) 175.
- Sant'Ambrogio, G., see Ishikawa, T. 112 (1998) 175.
- Sasaki, N., see Mutoh, T. 112 (1998) 253.
- Sayers, R.M., see Campbell, A.J. 112 (1998) 51.
- Sekizawa, S.-i., H. Tsubone, M. Kuwahara and S. Sugano, Does histamine stimulate trigeminal nasal afferents? 112 (1998) 13.
- Sekizawa, S., see Ishikawa, T. 112 (1998) 175.
- Shiner, R.J., see Elad, D. 112 (1998) 95.
- Shiner, R.J., see Natif, N. 112 (1998) 145.
- Shin, J.J., see Khoo, M.C. 112 (1998) 291.
- Shochat, A., see Elad, D. 112 (1998) 95.
- Sibahara, T., see Hosogai, M. 112 (1998) 37.
- Spielvogel, H., see Thomas, R.G. 112 (1998) 195.
- Sugano, S., see Sekizawa, S.-i. 112 (1998) 13.
- Takahashi, Y., H. Kobayashi, N. Tanaka, K. Honda, T. Kawakami and T. Tomita, Worsening of hypoxemia with nitric oxide inhalation during bronchospasm in humans 112 (1998) 113.
- Tanaka, N., see Takahashi, Y. 112 (1998) 113.
- Taylor, B.J., see Campbell, A.J. 112 (1998) 51.
- Thomas, R.G., P.C. LaStayo, H. Hoppeler, R. Favier, G. Ferretti, B. Kayser, D. Desplanches, H. Spielvogel and S.L. Lindstedt, Exercise training in chronic hypoxia has no effect on ventilatory muscle function in humans 112 (1998) 195.
- Tomita, T., see Takahashi, Y. 112 (1998) 113.
- Torres, J.E., see Gozal, D. 112 (1998) 283.
- Tsubone, H., see Mutoh, T. 112 (1998) 253.
- Tsubone, H., see Sekizawa, S.-i. 112 (1998) 13.
- Van de Heyning, P., see Verbraecken, J. 112 (1998) 59.
- Van de Voorde, J. and G. Joos, Regionally different influence of contractile agonists on isolated rat airway segments 112 (1998) 185.
- Vardon, G., see Dauger, S. 112 (1998) 215.
- Verbraecken, J., M. Willems, W. De Cock, E. Coen, P. Van de Heyning and W. De Backer, Central sleep apnea after interrupting longterm acetazolamide therapy 112 (1998) 59.
- Willems, M., see Verbraecken, J. 112 (1998) 59.
- Zappe, D., see Haberthür, C. 112 (1998) 23.



ELSEVIER

Respiration Physiology 112 (1998) 341–342



Subject index of volume 112

- Acclimatization, ventilatory, 123
Adenylyl cyclase, 1
 β -adrenoceptor, 1
Afferent nerve, nasal, histamine, 13
Afferents, pulmonary, 253
Afferents, pulmonary, lung surfactant, 135
Age, infants, sleep, asphyxia, 51
Airways, inflammation, bronchial responsiveness, 185
Airways, smooth muscle, 175
Anesthesia, sleep, EEG states, 71, 83
Anesthetics, enflurane, halothane, isoflurane, sevoflurane, 253
Asphyxia, respiratory, arousal responses, 51

Blood flow, coronary, left ventricular function, 227
Bronchi, inflammation, various lung generations, 185
Bronchodilation, exercise-induced, 145

Carbon monoxide, hypoxia, 315
Carotid body, hypoxia, catecholamines, bicarbonate, 265
Carotid body, imidazoline receptors, 239
Chemoreceptors, arterial, 123
Control of breathing, anesthetics, 253
Control of breathing, carotid body, transmitter substances, 239
Control of breathing, hypoxia, carotid body, 265
Control of breathing, hypoxic response, PKC, 283
Control of breathing, medullary respiratory neurons, raphé, 37
Control of breathing, nasal afferents, 13
Control of breathing, periodic breathing, 23

Development, postnatal lung, 325
Diaphragm, 1
Diffusing capacity, lung, 155
Disease, COPD, 113, 145

Electromyogram, ultrasonic interference, 203
Exercise, breathing capacity, COPD, 145
Exercise, correlation EMG, O_2 uptake, 167
Exercise, endurance training, 195

Fatigue, respiratory muscle loading, 305

Gas exchange, mixing in lung airways, 95
Gas exchange, pulmonary, diffusion limitation, 155
Gene expression, 1

Heart, function, coronary venous pressure, 227
Hypoxemia, NO inhalation, 113
Hypoxia, chronic, blunted ventilatory response, ventilatory decline, 123
Hypoxia, respiratory muscles, 195
Hypoxia, thermoregulation, 315
Hypoxia, ventilatory response, brainstem. PKC, 283

Long term facilitation, 123

Mammals, cat, rabbit, 239
Mammals, dog, 175, 203, 253
Mammals, golden mantled ground squirrel (*Spermophilus lateralis*), 71, 83
Mammals, guinea pig, 13
Mammals, humans, 23, 51, 59, 113, 145, 167, 291
Mammals, humans, muscles, respiratory, hypoxic adaptation, 195
Mammals, mouse, 215
Mammals, rabbit, 155, 305
Mammals, rat, 37, 135, 185, 265, 283, 315
Mammals, sheep, 227
Marsupials, tammar wallaby (*Macropus eugenii*), 325
Mechanics of breathing, assisted ventilation, mechanical loading, unloading, 23
Mechanics of breathing, loaded breathing, diaphragm EMG, 305
Mechanics of breathing, maximal ventilation, COPD, 145
Mechanics of breathing, surfactant, lung afferents, 135
Mediators, bradykinin, histamine, neurokinin A, serotonin, substance P, 185
Mediators, catecholamines, 265
Mediators, histamine, 13
Mediators, NO, 113
Metabolism, hypoxia, 315
Methods, EMG, sonomicrometry, 203
Methods, plethysmography, 215
Model, lung airflow distribution, 95
Morphometry, postnatal lung, 325
Muscle, diaphragm, 203
Muscle, skeletal, motor drive, O_2 uptake, 167

Nerve endings, vagal C-fibers, 253
Nerve, ethmoidal, 13
Nerve, pulmonary afferents, 135

- Neurons, central respiratory, raphé, phrenic motor nucleus, 37
Nucleus tractus solitarius, 283
- Oxygen uptake, isolated lung, 155
- Pattern of breathing, sleep apnea, 59
Pattern of breathing, unrestrained mice, methods, 215
Patterns of breathing, Cheynes-Stokes, 23
Pharmacological agents, acetazolamide, 59
Pharmacological agents, carbachol, U-46619, 185
Pharmacological agents, methacholine, 113
Pressure, coronary venous, left ventricular function, 227
Pressure, CPAP, sleep apnea, 291
Pressure, endotracheal cuff, 175
Protein kinase C, 283
Pulmonary circulation, isolated, perfused lung, 155
- Receptors, α_2 -adrenergic, imidazoline I₂, 239
Receptors, capsaicin-sensitive C-fibers, 253
Receptors, mechanosensitive, lung, 135
- Resistance, lung, 175
Respiratory muscles, EMG power spectra, 305
- Short-term potentiation, 123
Skeletal muscle, 1
Sleep, asphyxia, arousal, 51
Sleep, central apnea, acetazolamide, 59
Sleep, obstructive apnea, arousal, 291
Sleep, states, cardiorespiratory effects, 71
Sleep, states, respiratory reflexes, 83
Smooth muscle, airways, lung resistance, 175
- Thermoregulation, hypoxia, 315
Threshold, anaerobic, skeletal muscle, 167
- Upper airways, obstruction, sleep, 291
- Ventilation, high frequency, gas mixing, 95
Ventilation, maximal capacity, exercise, COPD, 145

